

Title (en)  
Solid soap

Title (de)  
Feste Seife

Title (fr)  
Savon solide

Publication  
**EP 2620488 A1 20130731 (EN)**

Application  
**EP 13152535 A 20130124**

Priority  
• JP 2012013044 A 20120125  
• JP 2012020438 A 20120202

Abstract (en)  
The object of the present invention is to improve the solidification point and the hardness of a soap of the fatty acid soap series wherein the percentage of potassium used as the counter ion is large. The solid soap of the present invention to achieve the above-described object is characterized by comprising 1 to 5 mass % of a betaine, and in that sodium and potassium are contained as the fatty acid counter ion, and potassium is 20 mole % or more of the counter ion.

IPC 8 full level  
**C11D 9/02** (2006.01); **C11D 9/30** (2006.01)

CPC (source: EP US)  
**C11D 9/02** (2013.01 - EP US); **C11D 9/262** (2013.01 - US); **C11D 9/30** (2013.01 - EP US)

Citation (applicant)  
• JP 2001040390 A 20010213 - NOF CORP  
• WO 2004029190 A1 20040408 - P & PF CO LTD [JP], et al

Citation (search report)  
• [XA] EP 1219701 A1 20020703 - SHISEIDO HONECAKE INDUSTRY CO [JP], et al  
• [A] US 2010069277 A1 20100318 - MCFANN GREGORY JAY [US], et al  
• [A] WO 9409107 A1 19940428 - PROCTER & GAMBLE [US]  
• [A] US 5264145 A 19931123 - FRENCH DAWN M [US], et al

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Designated extension state (EPC)  
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**EP 13152535 A 20130124**; JP 2012020438 A 20120202; US 201313745969 A 20130121